Receiving Report

Da	ite: / <u>4/3</u>	1-27) -		Batch No:	MI	1863K	,
Su	ipplier: 11/3	re	_		Dart P/O:	23	495	
Packing Slip: Invoice: Receipt: New Supplier Discrepancies	Yes Yes Cash Yes	No No No		Waybill At	Complete: pection	Yes	No No No	N/A 4
Part Number	Descript	ion	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
		Voji	R Po	Bil	101 B	.0		
				ur.				
				·		***		
			<u></u>	L	Initials of	Receiver	QC12	[~_
Production/Ad Date Received/Cos Initial							Locatio	n

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014
PO Print Date 3/24/2014

Page Number 1 of 7

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

305-925-2600

FedEx PI collect

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Via: Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN310-4	Nut	4/2/2014 Yes 4/2/2014	FN	150.00 Each	\$0.65	\$97.50
						Line Total:	\$97.50
2	AN3C37A	BOLT	4/2/2014 Yes 4/2/2014		200.00 Each	\$3.60	\$720.00
	,					Line Total:	\$720.00
3	AN4-42A	Bolt	4/2/2014 Yes		100.00 Each	\$1.15	\$115.00
11 1000 1000 1000 1000 1000	35.7		4/2/2014		Each (1-	3-2-4	



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014
PO Print Date 3/24/2014

Page Number 2 of 7

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

50.00

Each

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

	Contact Name Vendor Phone	305-925-2600		Buyer Customer POID Customer Tax #	Michael Gregoire 10127-2607		
	Ship To Contact			Terms	Net 30		
	Ship To Phone Ship Via: Ship Acct:	FedEx PI collect		Currency FOB	USD FCA – (Free Carrier)		
				٠	Line Total:		\$115.00
4	AN4C21A	BOLT	4/2/2014 Yes 4/2/2014	50.00 Each		\$1.05	\$52.50
	358			5014.	Line Total:		0.50.50
				_	Line Total:		\$52.50
5	AN6-16A	BOLT	4/2/2014 Yes 4/2/2014	15.00 Each		\$0.99	\$14.85
					Line Total:		\$14.85

4/2/2014 FN Yes

4/2/2014

Line Total:

\$200.00

\$200.00

\$4.00

Note:

AN6C12A

Bolt



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014 PO Print Date 3/24/2014

Line Total:

\$0.25

Page Number 3 of 7

\$15.00... +

\$75.00

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

	Contact Name Vendor Phone	305-925-2600		Buyer Customer POID	Michael Gregoire		
	Ship To Contact Ship To Phone	200 722 2000		Customer Tax # Terms Currency	10127-2607 Net 30 USD		
	Ship Via: Ship Acct:	FedEx PI collect		FOB	FCA - (Free Carrier)		
7	AN833-6D	Elbow, Bulkhead-M-Flare	4/2/2014 Yes 4/2/2014	15.00 Each		\$9.25	\$138.75
3	BSP43	RIVET	4/2/2014	100.00	Line Total:	\$0.15	\$138.75 \$15.00
	BSP43		Yes 4/2/2014	Each			
		/			Line Total:		\$15.00
)	CCR264SS3-3	Cherry Rivet	4/2/2014 Yes 4/2/2014	FN 100.00 Each	/	\$0.15 T	\$15.00

Note:

MS20601-AD4W8

4/2/2014

4/2/2014

Yes

300.00

Each

RIVET



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014 PO Print Date 3/24/2014

Page Number 4 of 7

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

305-925-2600

FedEx PI collect

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Total:

11 MS20822-3D

ELBOW

4/2/2014 FN Yes

4/2/2014

5.00 / Each 3-37 Line Total:

\$30.50

\$75.00

\$30.50

12 MS21044-N08

Nut

4/2/2014

250.00

\$0.75

\$6.10

\$187.50

Yes

4/2/2014

Each

\$187.50

13 MS21069L3

ANCHOR NUT

4/2/2014 Yes

4/2/2014

100.00

Each

\$0.35

\$35.00

Line Total:

Line Total:

\$35.00



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014 PO Print Date 3/24/2014

Page Number 5 of 7

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

	Contact Name Vendor Phone Ship To Contact	305-925-2600		Buyer Customer POID Customer Tax # Terms	Michael Gregoire 10127-2607 Net 30		
	Ship To Phone Ship Via: Ship Acct:	FedEx Pl collect		Currency FOB	USD FCA – (Free Carrier)		
14	V	Nutplate	4/2/2014 Yes 4/2/2014	50.00 Each	14-3-27	\$1.00	\$50.00
	317			80	Line Total:		\$50.00
15	MS21920-20	Clamp	4/2/2014 Yes 4/2/2014	FN 225.00 Each		\$7.50	\$1,687.50
	,				Line Total:		\$1,687.50

16 MS21920-22

Clamp

4/2/2014 FN

200.00 ✓

\$15.00

\$3,000.00

Yes 4/2/2014

.. 25

_Line Total: ----

17 MS24694-S148

SCREW

4/2/2014 Yes 4/2/2014 25.00 Each \$15.00

\$375.00



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014 PO Print Date 3/24/2014

Page Number 6 of 7

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

305-925-2600

Ship To Contact

Ship To Phone

Ship Via: Ship Acct: FedEx PI collect

Buver

Michael Gregoire

Customer POID

Customer Tax # Terms

Net 30

10127-2607

Currency

USD

FOB

FCA - (Free Carrier)

Line Total:

\$375.00

Screw

4/2/2014 FN Yes

\$0.06

\$0.30

\$126.00

4/2/2014

2,100.00 / Each

Line Total:

\$126.00

MS27039C1-08

SCREW

4/2/2014 Yes 2,000.00

\$600.00

4/2/2014

Each

Line Total:

\$600.00



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014 PO Print Date 3/24/2014

Page Number 7 of 7

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

305-925-2600

Buyer **Customer POID** Michael Gregoire

FedEx PI collect

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Via: **Ship Acct:**

71401-45

4/2/2014

0.00

\$0.00

\$0.00

4/2/2014

Procurement Quality Clauses A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS No

Each

Sp14-3-27

Line Total:

\$0.00

PO Total:

\$7,535.10

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.

Change Nbr:

1

Change Date:

3/24/2014

M. Tregoeil



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 32102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191 Plant Location: 10000 NFV. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 9835 NW 14TH ST, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER

200 EA MS21920-22

CUST REP#

LOT-NUMBER

MANUFACTURER

CCODE MPR DATE EXP DATE

164087

VOSS INDUSTRIES INC 14242

Jason Lewis

Vice President of Quality

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AS9100 AND ISO 9001 ACCREDITED

Divisions: Voss Aerospace · Voss Technologies 2168 WEST 25TH STREET . CLEVELAND, OHIO 44113-4172 PHONE: 216-771-7655 • FAX 216-771-2887

PACKING SLIP AND CERTIFICATION OF COMPLIANCE

JOB NUMBER:

Nov 18, 2013

PACKING SLIP NO: 424875

164087

Sold to: B/E AEROSPACE CONSUMABLES MGMT ATTN ACCOUNTS PAYABLE

PO BOX 025263

MIAMI

FL 33102-5263 Ship to: B/E AEROSPACE CONSUMABLES MGMT ATTN RECEIVING 9835 NW 14TH STREET

IMAIM

FL 33172

Cust No.

Customer P.O. No.

Ship Date

Ship Via

F.O.B.

51310700

OKWK09

11/18/13

RPS

VOSS PLT

Our Order NO. 164087

Order Date 9/28/12

Sales Rep R7

Terms

NET 30 DAYS

Oty. Qty. Ordered

750

Shipped 500

Part/

Description MS21920-22

REV-D

MU EA

BAND CLAMP

Voss Internal #: 0446115 MS21920-22 REV D FEDEX GROUND COLLECT ACCT #0331-0149-0

4 CTNS @ 14# EA

4 CTNS @ 185 PCS EA

.11 parts comply to specialty metal DFAR requirements All parts manufactured in USA

We hereby certify that parts and/or materials included in the above shipment have been manufactured and/or processed in compliance with all applicable purchase order and drawing specifications. In addition, data of chemical, physical and mechanical properties, where required, are on file for examinati≬n,

Michael Schleckman

E-mail: mschleckman@vossind.com

Quality Manager____

** BAR CODE LABEL NEEDED **

ITAR/EAR EXPORT CONTROLS MAY APPLY PER FEDERAL REGULATIONS (22 CFR 120-130)

PLEASE DO NOT ASSUME ANY DEBITS UNTIL VOSS CREDIT IS AUTHORIZED.

WE HEREBY CERTIFY THAT THESE GOODS PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS

ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPT. OF LABOR ISSUED UNDER SECTION 14 THEREOF.

EEO CLAUSE from EXECUTIVE ORDER 11246

EQUAL EMPLOYMENT OPPORTUNITY: The Equal Employment Opportunity clause in Section 202, Paragraphs 1 through 7 of Executive Order 11246, as amended, relative to equal employment opportunity and the implementing Rules and Regulations of the Office of Federal Contract Compilance and the affirmative action clauses set forth in 41C.F.R. 60-250.4 and 41C.F.R. 60-741.4 relating to disabled veterans, veterans of the Vietnam era and handicapped individuals are incorporated herein by specific reference.

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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER CUST REF# LOT-NUMBER MANUFACTURER CCODE MFR DATE EXP DATE

8 100 EA BSP43 22471 AVDEL CORP (NC) 5U1K0

Jason Lewis

Vice President of Quality

Avdel Cherry TEXTRON

614 NC Hwy 200 South PO Box 486 Stanfield, NC 28163-0486 **DUNS 101779726**

Sold To: 75858

M & M AEROSPACE HARDWARE PO BOX 025263 MIAMI, FL 33102 USA

PACKING LIST

Order No: 70239247

Page:

Order Date: 12/15/98 Print Date: 01/12/99

Ship To: 75858-02

M & M AEROSPACE HARDWARE

1900 N.W. 89TH PLACE MIAMI, FL 33172

USA

Salespersons: 140

Credit Terms: 1%10,30

1%10, Net 30

Purchase Order: 0K4489

Ship Via: Best Way

FOB Point: ORIGIN/PPD/CHARGE

SHIP CAROLINA OR WATKINS OVER 200 LBS/UPS UNDER 200 LBS.UPS

CERTS MUST ACCOMPANY EVERY SHIPMENT NO EXCEPTIONS

INSTRUCTIONS FOR MANDREL SHIPMENTS: KEEP ONE PART NUMBER IN EACH BOX, DO NOT MIX MANDRELS TOGETHER. EACH BOX MUST BE MARKED WITH P.O. #, PART NUMBER

AND QUANTITY.

SHIPMENTS IN THEIR

LOCATION********************

inspection required on every shipment. COMBINE SHIPPMENTS TO SHIP TRUCK PPD ON THURSDAY/UNLESS SPECIAL REQUESTS

FAX/HMD

############ MUST FAX SHIPPING PAPERS TO HELEN 704-888-0430 ##############

	Ln Item Number	Site T Location	Box Qty Lot/Serial	Qt	Qty Open y to Ship		ue ed	
-	5 BSP-04-03 ASY/NAIL	1800		0	179,200.0	EA 01/12/	99	
	·	ninship <i>v4:1</i> 1 ninship	z2471 10m z2471		170,000.0	(17)	
		minsmp	partial		9,200.0	())	

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Control Manager

Signed

Joe Whisonant

** Fastening Systems A Global Leader in Fastening Solutions

Avdel Cherry TEXTRON

Avdel Cherry Textron Inc. 614 NC Hwy. 200 S. P.O. Box 486 Stanfield, NC 28163-0486 704.888.7100 Fax 704.888.7192

	CERTIFICAT	E OF COMPLIANCE					
CUSTOMER NAME AND ADDRESS	3	CUSTOMER PURCHASE ORDER	94774	2			
wtw (thospace	CORPORATE PURCHASING					
		Shipper No: 7 0 2 3 9 2 4 7	1-17/				
Customer Part Number		Customer Order No.: OK4489	+ m				
Cherry Part Number	DESCRIPTION	Rivet and Mandrel Cert	LOT NO.	QTY SHIPPED			
BSP-4-3	wait as	R 27234	22471	179,200.0			
		25905					
		S 29177					
		29076					
	CE8	TIFICATION		<u> </u>			
compliance with all specifications. Inst	herein have been inspected requirements of the noted	d and/or tested to the extent neo purchased order, drawing and re ports which substantiate this stat	evision, and ap	plicable			
NOTES AND EXCE	EPTIONS:			_			
(EF							
AUTHORIZED SIGNATURE	NAME	TITLE		DATE			
Jud Deas	Judy 567454	QUALITY REPRESEN	TATIVE	1-1499			



JUSTOMER:

ALLOY

BANDER OF CHEMINAL SERVICES 51 + 92 994. **300** 500 % 3.0. 30% 426 37 WHE . E. . 9 ·10

Certified Test Report

DATE SHIPPED PHYSICAL TESTING DATA M NO DESCRIPTION MECHANICAL PROPERTIES 2002 .1325"DIA. +--.0005" 3056-H32 ALUMINUM COLD MEADING WIRE X 30" COILS aut. Toma (Le 47.9-46.6 45). ЗФФ-4ФФ# СМ WIPE СДАЯ: ВЗВ. CUST PART MODS-122. KED SPEC GOR-486/C 米米乔木木 TRIAL FIRE SIEW BOUTSMENT 并并并来来 17 **CHERRY TEXTRON** RAW MATERIAL CERTIFICATION SEP 23 1997

24:32-3-36

CHEMICAL COMPOSITION OTHERS

ALLUY	51	FE	I CU	MN	MG	CR	ZN	TI		OTHE	R\$
	 		1 30	1 1111			~!1	1 11 -	l	EACH	TOTAL
1100					991	% MIN. ALUM	INUM				
2011	40	7	5.0 - 6.0				30		Pb .206 Bi .206	.05 ~	.15
2017	.208	7	3.5 - 4.5	.40 - 1.0	.408	10	25	15		05	.15
2024	50	50	3.8 - 4.9	.309	1.2 - 1.8	10	25	15	Zr+Ti20	.05	.15
2117	8	7	2 :2 - 3.0	20	.2050	10	25	3		.05	.15
5005	30	7	20	20	.50 - 1.1	10,	25			.05	.15
5052	25	40		-440	2.2 - 2.8	į.1535	10	4.4		.05	.15
5056	30	40	10	.0520	4.5 - 5.6	.0520	10	7 74.8	47	.05	.15
5356	25	40	<i>i</i> €10	.0520	4.5 - 5.5	.0520	10	.0620		.05	.15
5053	45-65% of Mg.	35	10		1.1 - 1.4	.1535	10	7		.05	.15
3061	.408	7	.1540	15	.8 - 1.2	.0435	25	15		.05	.15
3262	.40 - 8	7	.1540	15	.8 - 1.2	.0414	25	5	Pb .407 Bi .407	.05	.15
7050	12	15	2.0 - 2.6	10	1.9 - 2.6	04	5.7 - 6.7			.05	.15
7075	40	50	1.2 - 2.0	30	2.1 - 2.9	.1828	5.1 - 6.1	20	Zr+Ti25	.05	.15

ERTIFY THAT THE ABOVE DESCRIBED MATERIAL HAS BEEN ED IN ACCORD WITH CURRENT ASTM AND/OR FEDERAL JDARDS AND MEETS THE REQUIREMENTS SHOWN.

BENEKE WIRE COMPANY

ALTHORIZED SIGNATURE



'JUL 1 6 1996

CUSTOMER:

CHERRY DIV. OF TEXTRON 1224 E. WARNER AVE 5.0. 90x 2:57 الزرا SANTA ANA



92707-0157



DATE SHIPPED LOT NUMBER

			Î		* *	942			OT NUMBER	43-00	7-10-	94
					PH	YSICAL TES	TING DATA					
ITEM NO.	Γ			4 Pm	DESCRIPTION					MECHAN	IICAL PROPERTIE	5
	AL	UM I NUM	COLD +	FADING	0\$6- H38 WIRE X	22" BLE	, JÇKMDUNÎ	 }	CT. TE	NSILE 46.	2-46.5	KS1.
	CU	-100# (ST PAR) D SPEC	้ พออธ์		EC M-S.	REV.	i. Neci				RAW	CHERRY
	C	2 59	05		,		SEP	8 1997			MATERIAL TIFICATION	TEXTRON
				, , , , , , , , , , , , , , , , , , , 		Ļ	MACOUTION				d d	
	-	.		CU	MN	MG :	MPOSITION CR	ZN	TI		₹ЮТНЕ	
1100		SI	FE	00	19174	l	MIN. ALUMII				EACH	TOTAL
2011		- 40	7	5.0 - 6.0			,	30		Pb .206 Bi .206	.05.3	.15
2017		8 (7	3.5 - 4.5	.40 - 1.0	.408	- 10	25	15	Zr+Ti20	.05	.15
2024			·50	3.8 - 4.9	.309	1.2 - 1.8	10	25	15	Zr+Ti20	.05	.15
2117	, .	- `.8	7	2.2 - 3.0	20	.2050	10	25		•	.05	.15
5005	5	30	7	20	20	.50 - 1.1	10	25			.05	.15
5052	2	25	40	: · :10	10	2.2 - 2.8	.1535	10			.05	.15
5056	5)	- ,30	40	.10	.0520	4.5 - 5.6	.0520	16			.05	.15
5356	5	25	40	.10	.0520	4.5 - 5.5	.0520	10	.06 - .2 0	∴Be0008	.05	.15
6053	3	45-65% of Mg.	35	.10		1.1 - 1.4	.1535	10		É,	.05	.15
606	1	.408	7	40	15	.8 - 1.2	.0435	25	15		.05	.15
6262	2	.408	7	J5 40	15	.8 - 1.2	.0414	25	15	Pb 407 Bi 407	.05	15
-					 					20 45	05	15

WE CERTIFY THAT THE ABOVE DESCRIBED MATERIAL HAS BEEN TESTED IN ACCORD WITH CURRENT ASTM AND/OR FEDERAL STANDARDS AND MEETS THE REQUIREMENTS SHOWN.

- .15

- .50

- .12

- .40

7050

7075

AUTHORIZED SIGNATURE

- .10 | 1.9 - 2.6

- .30

2.1 - 2.9

2.6

BENEKE WIRE COMPANY

Zr .08 - .15

Zr+Ti - .25

.15

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.05

- .04

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5.7 - 6.7

5.1 - 6.1

	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		,	
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JOY WIRE CORPORATION

East Main Street Joy, PA 17552-9505

SHIPPING ORDER FORM L4-098 7/7/77 PAGE 6 ORDER NUMBER

AVDEL CHERRY PEXTRON P. 0.80X 486

8TANFIELD, NC 28163-0486

H AUDEL CHERRY TEXTRON
P 614 NC HWY 200 SOUTH

T P B BOX 486

O STANFLELD, NG 20163-0486

QUANTITY SHIPPED

CUSTOMER NUMBER				
COSTONES INSMERI	CSTMR. ORD. DATE	CUSTOMER ORDER NUMBER	REV. #	DATE ENTERED
	}			
299060	07/23/98	21228		07/23/98

PART NUMBER	PRODUCT CLASS	QUANTITY ORDERED	UNIT/MEAS.	٦	
33290	351	1328.0] (6-C
2076 PHOR	C1018 MA	NOREL CHE	RRY TEXTRO	TAT I	` [
	• .			1 1	
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entlemen:

Based on our supplier's ladle analysis and our mechanical testing, we certify hat the above material meets the following specifications:

Chem	ical A	nalysis	5] .
C10	18			
No. 917	L	ot No.		
Mn	P	S	Si	
.66	.013	.011		
Ni	Мо	Fe	Cu	
Ti	Al	Съ	Ta	
Zr	N	Other		Call backtor (Signe
	C10 No. 917 Min .66 Ni	C1018 No. L 917 Min P .66 .013 Ni Mo Ti Al	C1018 No. Lot No. 917 Min P S .66 .013 .011 Ni Mo Fe Ti Al Cb	Mn P S Si .66 .013 .011 .18 Ni Mo Fe Cu Ti Al Cb Ta

STATE OF PENNSYLVANIA) COUNTY OF LANCASTER)

SUBSCRIBED AND SWORN THIS

before the undersigned, who does hereby certify that under the laws of the State aforesaid, he is duly/authorized to administer, oaths.

Notary Public

Notarial Seal
Dena L. Plautz, Notary Public

(Signed)

Mt. Joy Boro, Lancaster County
My Commission Expires Dec. 21, 2000

Member, Pennsylvania Association of Nataries

Mount Joy Wire Corporation

CHATT TO TO THE TO THE TO THE

1000 E. Main Screet Mount Joy, 124 17652-9505

JOY WIRE CORPORATION

000 East Main Street ount Joy, PA 17552-9505

3

SHIPPING ORDER FORM L4-095 7/7/07 PAGE 5

RDER	NUMBER
9949	46

AVOEL CHERRY FEXTRON
P 0 BOX 486

STANFIELD, NC 28163-0486

S
H AUDEL CHERRY TEXTRON
P 614 NC HWY 200 BOOTH
P 0 BOX 486
O STANFIELD, NC 28163-0486

CUSTOMER NUMBER	CSTMR. ORD. DATE	CUSTOMER ORDER NUMBER	REV. #	DATE ENTERED
299060	05/05/98	16198		05/05/98

PART NUMBER	PRODUCT CLASS	QUANTITY ORDERED	UNIT/MEAS.] /		QUANTITY SH	IPPED	0	ATE
33290	351	3394.00	1.8		,	<i>उ</i> ,ब ३	}	02/	17/98
1076 PHOS	CIOIS MAN	DREI					TENSILE SI	IIPPED	
•			HERRY TE	TRON	•	110	,000	/119	,000
Finish: P *ck*ging: 3		ELB	C 5 9 0	76					
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ID TENS.						 			

Gentlemen:

Based on our supplier's ladle analysis and our mechanical testing, we certify that the above material meets the following specifications:

Chemical Analysis					
Гуре	C101	18			
Heat A348		Lo	t No.		
C-	Mn	P	S	Si	
. 18	.81	.015	.015	.20	
Cr	Ni	Мо	Fe	Cu	
Co	Ti	Al	Сь	Ta	
Mg	Zr	N	Other	:	Christians

STATE OF PENNSYLVANIA)
COUNTY OF LANCASTER)

before the undersigned, who does hereby certify that under the laws of the State aforesaid, he is duly authorized to administer oaths.

(Signed)

Notarial Seal.....
Dena L. Pfautz, Notary Public
Mt. Joy Boro, Lancoster County
My Commission Expires Dec. 21, 2000

Notary Public

Member, Pennsylvania Association of Notaries

Mount Joy Wire Corporation

1000 E. Main Street: Mount Joy, PA 17552-9505

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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

QUANTITY U/M PART-NUMBER

100 BA CCR264SS3-3

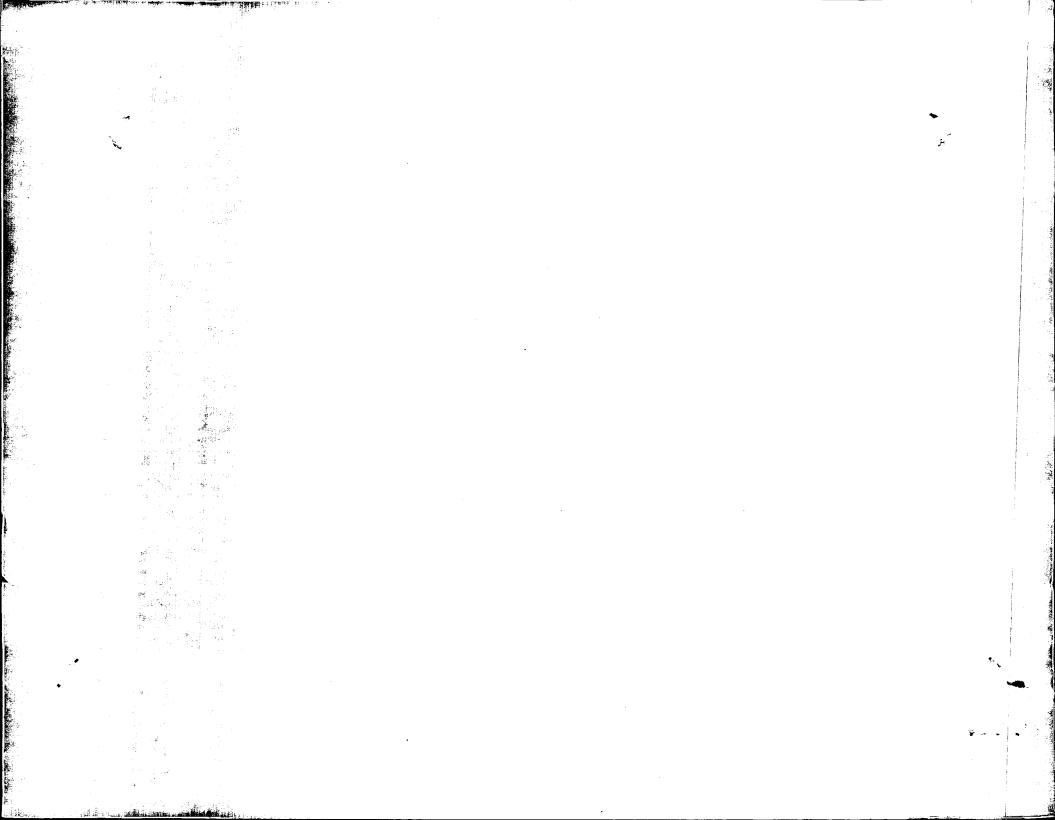
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87436009

CHERRY AEROSPACE SAN 11815

Vice President of Quality

Inv # 03/25/14





Cherry Aerospace



PACKING LIST

Order No: SO325909 Order Date: 06/12/08

Print Date: 01/02/11

Ship-To: 19000244

Page:

02/01/11

1224 East Warner Avenue Post Office Box 2157 Santa Ana, CA 92707-0157

USA

Sold-To: 10015341

B/E AEROSPACE PO BOX 025263

MIAMI, FL 33102-5263

USA

T 0

OL

D

B/E AEROSPACE INC C.M. Н 10000 N.W. 15TH TERRACE I MIAMI, FL 33172 ₽

USA

Т 0

Purchase Order: 0FJ317

Ship Via: YRC

FOB: Origin - Collect

EΑ

Remarks:

Salesperson (s):110

Credit Terms: Net 30

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0 IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3 AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

Net 30

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010

TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

Promised Qty Open Qty to Ship UM Shipped T LocationLot/Serial Ln Item Number

10 CCR264SS-3-03 Customer Item: S1972-3

*IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7014 ALT I

1600

*PREFERENCE FOR DOMESTIC SPECIALTY METALS 38600.0 D0603 87436009 12800.0 EZLINE-2 87410621

TEST REPORTS ENCLOSED = DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited





PACKING LIST

Cherry Aerospace 1224 East Warner Avenue Post Office Box 2157 Santa Ana, CA 92707-0157 USA



Order No: S0325909 Order Date: 06/12/08

Print Date: 01/02/11

Page:

Sold-To: 10015341

ល០កក	B/E AEROSPACE PO BOX 025263 MIAMI, FL 33102-5263	•	
TO	USA		

Ship-To: 19000244

B/E AEROSPACE INC C.M. Η 10000 N.W. 15TH TERRACE I MIAMI, FL 33172 P USA Т 0

Salesperson (s):110

Credit Terms: Net 30

Net 30

Purchase Order: 0FJ317

Ship Via: YRC

FOB: Origin - Collect

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0 IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3 AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010 TOOLS FCCN: FAR99 SCHEDULE B# 8467290095

Ln	Item Number	Site T LocationLot/Serial	Qty Open Qty to Ship UM	Promised Shipped
10	CCB36455 3.03	1600	EA	02/01/11

CCR264SS-3-03 Customer Item: S1972-3

*IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7014 ALT I

1600

*PREFERENCE FOR DOMESTIC SPECIALTY METALS

38600.0 D0603 87436009 12800.0 EZLINE-2 87410621

TEST REPORTS ENCLOSED = DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

10

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Assurance Representative

Signed .

하는 사람들이 되었다. 그 사람들이 가장 하는 것이 되었다. 		
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Heat Treating ISO/IEC 17025 Material Testing Lab

Final Inspection & Test Report **Cherry® Rivet**

1224 East Warner Avenue Santa Ana, CA 92707-0157

An ISO9001 and AS9100 registered company. OASIS #6111041606

Part Numbers	Rev	Proc. Spec.	Rev
CCR264SS-3-03	AD	PS-NPR-200	м

Lot I.D. No.: 87436009

Lot Size:

100,000

MFG. Date:

January 01, 2011

ASSEMBLY DATA

					The second secon	LUCE
T	YPE	ID#	CERT#	MATERIAL	FINISH	LUBE
F	Rivet	87436009	A66104	C-1018/ ASTM-A 510/ ANNEALED	CAD PL / QQ-P-416,T2,C2	Rust Inhibit
	Stem	87434376	A66089	Carbon Steel per ASTM A-510	None	Rust Inhibit

W.O. #: 5422890

Final Lube: None

QUALITY CONFORMANCE/ACCEPTANCE RESULTS

	11	NSTALLE	D SHEA	R		TEN	SION	_
MIN REQ'D		1	05			15	5	
SAMPLE SIZE			26			20	3	
SPECS								
RESULTS	184	193	181	190	225	218	217	216
!	194	182	196	200	227	234	229	224
	195	202	209		218	219	219	
	187	194	188		189	227	232	
1	191	196	192		230	217	232	
	197	192	195		219	227	228	
i	184	196	209		226	227	227	
LOAD VALUES IN POUNDS	181	186	202		218	217	217	

PCS.	ITEM	<u>STATUS</u>	PCS.	<u>ITEM</u>	<u>STATUS</u>
1 00.		•			DAGG
<u>125</u>	EXAMINATION	<u>PASS</u>	<u>32</u>	INSTALLATION (Min and Max Grips)	<u>PASS</u>

Comments:

Blind Fastener

Tr. Rev.:

Rev. Date:

1/1/2011

Inspector

V Iriarte

The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may now be done if accordable to company the description. only be done if acceptable to or approved by the Administrator.

Insp. Control #: 282906



Final Inspection & Test Report Cherry® Rivet

1224 East Warner Avenue Santa Ana, CA 92707-0157

An ISO9001 and AS9100 registered company. OASIS #6111041606

Lot I.D. No.:

87436009

Rev:

Customer Parts List

Customer Part Number

Rev

Proc. Spec.

Rev

S1972-3

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PS-NPR-200

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SOLD TO

CHERRY AEROSPACE LLC 1224 E. WARNER AVENUE SANTA ANA, CA 92705-5414 USA

CERTIFICATION

WORK ORDER 080093

HEAT NO. 10058980 SALES ORDER / RLS 837410 / 1 ISO 9001-2000 REGISTERED

ACCREDITED

MECHANICAL TESTING **CERT # 911.01**

CUSTOMER P.O. PO120571		STOMER P/ 114.0900	ART		QUANTITY 1,035	CARR Lbs	ERS 1	LADING NO 00087256		PMENT DATE 10/2010
SPECIFICATION (C-1018, AKFG, M114-090, REV	CHQ WII	RE, SAIP	Zinc Phos STM-A545	phate, Lim	e & Stear	rate Coating	g, Size:0.(0895/0.0905	Specifi	cations:
CERTIFICATION RI	EQUIREME	NTS		•						
				Chemic	al Proper	ties				
C	Si	Mn	P	S	Cu	Ni	Cx	Мо	Al	N
. 17	.08	. 78	.013	.008	.10	.05	.07	. 02	. 037	.006
				Physic	al Proper	ties				
Mill Source	•									
Charter										
		<u>, , , , , , , , , , , , , , , , , , , </u>		Mechani	ical Prope	erties				
TEST Tensile Streng	ith	_	<u>UNITS</u> KSI							Results 84.8

DEC 27 2010





Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of meterial. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of the purchase price thereof, as we efect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereofting of felse, fictibious or freudwient statements or entries on this document may be punished as a telony under Federal statutes including Federal law. Title 18, Chapter 47."

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness pur ASTM E 18. metallographic mount preparation per ASTM E, decarburization performed as per IFI 140.

The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified. HRB and HRC results are conversions from ASTM A370 tables 1 and 2. Fest result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

Material is free of mercury, radium, or alpha contamination.

Material is free of mercury, radium, or alpha contamination.

Material is free of mercury, radium, or alpha contamination.

16

QA Manager

m:\pri 12/10/2010



EMAIL

1658 Cold Springs Road

Saukville, Wisconsin 53080

(262) 268-2400

.

1-800-437-8789

FAX (262) 268-2570

A Division of Charter Manufacturing Company, Inc.

CHARTER STEEL TEST REPORT · Reverse Has Text And Codes

Wiretech Incorporated 6440 East Canning Street Los Angeles,CA-90040 Kind Attn :Cert To Contact

Cust P.O.	006480
Customer Part #	1018C3C055-C
Charter Sales Order	70009208
Heat #	10058980
Ship Lot #	1007413
Grade	1018 R AK FG RHQ 7/32
Process	HR
Finish Size	7/32

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

					Test	Results	of Heat Lo	R# 100589	BO		
Lab Code: 7388 CHEM %Wt	C ,17	MN .78	P .013	S .008	SI .08	NI .05	CR .07	MO .02	CU .1	SN .006	V .001
	AL .037	N .006	B .0001	Ti .001	NB .001						
JOMINY(HRC)	JOM01 43	JOM02 23	JOM03 21								
JOMINY SAMPL CHEM, DEVIATI	E TYPE E	NGLISH =	= C						•		
TENSILE REDUCTION OF	FARFA		# of 1	Tests		1 Value	of Rolling Ma 75 73	Lot# 1007 x Value .4	413 Mk 75 73		TENSILE LAB = 0358-02 RA LAB = 0358-02

Specifications:

Manufactured per Charter Steel Quality Manual Rev 8,12-05-07

Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:

Customer Document = COP 3000 Revision = R Dated = 24-OCT-07

Additional Comments:

DEC 27 2010



WiraTech 10756360

Charter Steel			
Saukville, WI, USA			
		 	

Rem: Load1,Fax0,Mail0



Page 1 of 1

Janice Barnard Manager of Quality Assurance 04/27/2010



CHERRY AEROSPACE LLC 1224 E. WARNER AVENUE SANTA ANA, CA 92705-5414 USA

CERTIFICATION

WORK ORDER 079611

HEAT NO. C80712 SALES ORDER / RLS 837233 / 1 ISO 9001-2000 REGISTERED



CERT # 911.01

CUSTOMER P VPO92778		OUSTOMER P M067-060	W		2,094		RRIERS 2	LADING NO 00087214		IPMENT DA 1/08/2010
SPECIFICATIO C-1018, AK ASTM-A51	FG, CHQ W	VIRE, SAIP	Zinc Phos 4067-0600	sphate, Lin , REV. T	ne & Stear	ate Coat	ing, Size:0.(0595/0.0605	Specifi	ications:
CERTIFICATIO	N REQUIREM	IENTS								
				- Chemic	al Propert	ies				
.18	Si .04	Mn . 74	.005	. 006	Cu . 03	Ni .02	Cr .02	Мо . 005	Al .046	N .003
· · · · · · · · · · · · · · · · · · ·				Physic	al Propert	es				
Mill Sou	rce .									
				Mechani	cal Proper	ties				
<u>EST</u> Fensile Stre	ngth	_	NITS SI							Results 118.0



Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum flashilly for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of the purchase price thereof, as we stock Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.
Were Test, inc. metallurgical letostatory is accredited in the following test: chemical analysis per ASTM E 415, mechanical stating per ASTM E 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 10, inclusion rating per ASTM E 45, decarburization performed as per IFI 140.

Specified, HRB and HRC results are conversions from ASTM ASTO tables t and 2, "Fest result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

LATEST REVISIONS OF ASTM

Material is free of mercury, radium, or alpha contamination.

Material is free of mercury, radium, or alpha contamination.

qtc302 (v1.1)

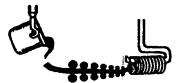
page 1 of 1

Mike Martinez



m:\prl

12/08/2010



10624 0058 WIRETECH. INC.

6440 E. CANNING ST. SPUR 6604 COMMERCE, CA 90040

MILL TEST CERTIFICATE

IVACO ROLLING MILLS LP

P.O.BOX 322, L'ORIGNAL, ONTARIO, CANADA KOB 1KO TEL: (613) 675-4671 FAX: (613) 675-6866

This report contains analysis data that were produced under subcontract by laboratory Arcelor/Mittal Canada, Standards council of Canada certificate number 270.

NVLAP only covers the chemistry presented within this certificate. All other data is not covered by the NVLAP accreditation.



NA(VÓ

Lab Code 200143-0

ATTENTION: A Stephan/M Martinez

VIA: EMAIL

Date Rolled 10-Sep-2010

Date Chemical Analysis Performed

21-Mey-2010

****													Date 111		, o-cep			OT IC! INC					14y-2010
P.O. Numbe	ı Oı	dar N	iniber	, Hea	t Num	ber	Cust	oners	pec	S S	ec Re	v. No.	0.0	stome	r Part	۷o.	Fullet			Grad	ie.	Ha	meter
006527		10127			C80712			18AKF			3 21/21			18-030			301		_	18AK	CHQ	5.50	0 mm
										Heat	Analy	sis			**, 25 \ } *								
	С	Mn	Р	S	Si	Cu	Ní	Cr	Мо	Sn	Al	N	В	٧	Ti								
Spec. Min *	.16	.65		ı							.035												
Actual	.18	.74	.005	.006	.04	.03	.02	.020	.005	.002	.046	.0030	.0001	.002	.000								
Spec. Max*	.19	.85	.020	.020	.10	.08	.10	.100	.040	.020	.060	.0090	.0005										

This is to certify that heat number C80712 is in conformance with the required specifications.

Heat analysis obtained by test methods ASTM E415 and ASTM E1019.

*Minimum and maximum refer to the required customer specification.

This is to certify that the material is in conformance with the required specifications. Radioactive emissions are at background levels.

This steel was produced using a fine grain steel/saking practice (6-11).

Aluminum to Nitrogen ratio =

15.333

Res	ults of Phy	sical Test	ng
	UTS (KSI)	ROA (%)	DIA. (In)
Averages	72.30	68.55	.2169



DEC 18 ZUIL

C80712



APPROVED BY:

Supervisor, Chemistry Laboratory and Billet Inspection

ISSUED BY QUALITY ASSURANCE:

Date: 13 Sep 2010

Specification Clerk

Elaine Demers

This Certificate shall not be reproduced except in full, without the written approval of Naco Rolling Mills LP, a Heico Company. This certificate is not to be used by the client to daimproduct endorsement by NVLAP or any agency of the U.S. Government.

The following statements are applicable to the material described on the front of this Test Report:

- 1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
- 2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
- 3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
- 4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address				
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080				
0358-02	8171	CSSR/ CSSP	Charter Steel Rolling/ Processing Division	1658 Cold Springs Road, Saukville, WI 53080				
0358-03	123633	CSFP	Charter Steel Ohlo Processing Division	6255 US Highway 23, Risingsun, OH 43457				
0358-04	125544	CSCM/ CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004				
•	•		Subcontracted test perfo	rmed by laboratory not in Charter Steel system				

When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSSM, CSCM/CSCR	ASTM E415; ASTM E1019
-ray Fluorescence Stainless and Alloy Steel	CSCM/CSCR	ASTM E572
Macroetch	CSSM, CSCM/CSCR	ASTM E381
Hardenability (Jominy)	CSSM, CSCM/CSCR	ASTM A255; SAE J406; JIS G0561
Grain Size	CSSM	ASTM E112
Tensile Test	CSSR/CSSP, CSFP,	ASTM E8; ASTM A370
Rockwell Hardness		ASTM E18; ASTM A370
Microstructure (spheroidization)	CSSR/CSSP, CSFP	ASTM A892
Inclusion Content (Methods A, E)	CSSR/CSSP, CSCM/CSCR	ASTM E45

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/11.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

- 6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
- 7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - alt may be distributed only to their customers
 - ■Both sides of all pages must be reproduced in full
- 8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
- Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



DEC 27 2010





B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

50 EA AN4C21A

A

AIRFASCO INDUSTRIES 32958

Jason Lewis

Vice President of Quality

Airfasco Industries, Inc.

2655 Harrison Ave SW Canton, OH 44706 Ph: 330-430-6190, Fax: 330-430-6199, Packing Slip

Original

Invoice #: 115751 Invoice Date: 10/6/2009

Time: 11:12:05 AM

Page: 1

To:

M&M AEROSPACE HARDWARE

PO BOX 025263 MIAMI, FL 33102

USA

Ph: 305-592-5155 Fax: 305-591-8357 PURCHAS

ARRANGEMENTS FOR ORGANIZATION
APPROVAL OF SUPPLIER NON-CONFORMING
MATERIAL, THE SUPPLIER TO NOTIFY THE
ORGANIZATION OF CHANGES IN PRODUCT.

Ship To:

M&M AEROSPACE HARDWARE

10000 NW 15TH TERRACE

MJAMI, FL 33172

Cust. PO#: 0HE167

Terms: NET 60

Ship Via: FEDEX GROUND COShip Via Acc: 0331-0149-0

Order Date: 10/15/2008

of Items: 2

of Boxes: 10

Weight:

Prepared By:

Sales Order: 91907

Ship Log #: 1

Ship Order:

Customer #: 12726

VAT #:

Cust VAT #:

Ship Date: 10/6/2009

Buyer:

FOB:

AWB:

Shipment:

m	Part Number/Description	Shipped	BackOrd	CI	D		Unit Price	UOM	Total Am
3	AN7-21A BOLT, AN Loc/Whse:	0	10000	N	IE			EA	
	Control #: 0-0								
9	AN4C21A BOLT, AN Loc/Whse:	10000	0	NE	E			EA	
	Control #: 142534-1	1						1 1	
	L-16613 TEST REPORT L-16613								
	AIRFASCO TERMS AND REQUIREMENTS FOR		,						
	APPROVAL OF PRODUCT, PROCEDURES, AND EQUIPMENT: THE QUALIFICATION OF PERSONNEL AND QUALITY MANAGEMENT								
İ	SYSTEM REQUIREMENTS, THE POSITIVE AND								
	APPLICABLE SPECIFICATIONS, DRAWINGS, PROCESS REQUIREMENTS, INSPECTION								
	INSTRUCTIONS AND OTHER RELEMANT						İ		
- 1	TECHNICAL DATA, THE TEST SPECIMENS FOR DESIGN APPROVAL, INSPECTION,		1						
1	INVESTIGATION, OR AUDITING, RELATIVE TO								
	SUPPLIER NOTIFICATION TO ORGANIZATION OF NON-CONFORMING PRODUCT AND								
ł	APPANCEMENTS FOR ORGANIZATION	ĺ]		ı	l i			

C OF C ENCLOSED 10 BOXES 1 PALLET PARTS MADE IN USA. THANK YOU!	-	 		-			
	•	`	•				
		•					

Airfasco Industries, Inc.

2655 Harrison Ave SW Canton, OH 44706 Ph: 330-430-6190, Fax: 330-430-6199,

Packing Slip

Original

Invoice #: 115751 Invoice Date: 10/6/2009

Time: 11:12:06 AM

Page: 2

To:

M&M AEROSPACE HARDWARE

PO BOX 025263 MIAMI, FL 33102

USA

Ph: 305-592-5155 Fax: 305-591-8357 PURCHAS

Ship To:

M&M AEROSPACE HARDWARE 10000 NW 15TH TERRACE

MIAMI, FL 33172

Cust. PO#: 0HE167

Terms: NET 60

Ship Via: FEDEX GROUND COShip Via Acc: 0331-0149-0

Order Date: 10/15/2008

of Items: 2

of Boxes: 10

Weight:

Prepared By:

Sales Order: 91907

Ship Log #: 1

Ship Order:

Customer #: 12726

VAT #:

Cust VAT #:

Ship Date: 10/6/2009

Buyer:

FOB:

AWB:

Shipment:

Item	Part Number/Description	Shipped	BackOrd	СБ	Unit Price	UOM	Total Amt
	PROCESS DEFINITION AND, WHERE REQUIRED, OBTAIN ORGANIZATION APPROVAL, THE RIGHT OF ACCESS BY THE ORGANIZATION, THEIR CUSTOMER, AND REGULATORY AUTHORITIES TO ALL FACILITIES INVOLVED IN THE ORDER AND ALL APPLICABLE RECORDS, THE SUPPLIERS TO FLOW DOWN TO SUB-TIER SUPPLIERS THE APPLICABLE REQUIREMENTS IN THE PURCHASING DOCUMENTS, INCLUDING KEY CHARACTERISTICS WHERE REQUIRED.				Unit Price	JOM	Total Ami
			- 1				
0 BOXE						1	
HANK	YOU!	· ·	-				
		 .					



2655 HARRISON AVE. SW CANTON, OH 44706 PHONE: (330)430-6190 FAX: (330)430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 10/01/09										
			PAR	RT NO.: <u>A</u>	N4C21	A per N	ASM4C	21A rev 1		
AFC LOT NO.	PART NO.: <u>AN4C21A per NASM4C21A rev.1</u> QTY MFG.: <u>20,800</u>									
PROCUREME	NT SPECIFICATE	OV 5	Q I I	MIFG.; <u>Z</u>	0,800					
	W STECIFICATION	ON: Produced per N	<u>ASM 68</u>	812 rev. 2)					
		HEAT TRE								
VENDOR: Body	/cote									
			CER	FIFICAT	ION N	O.: 38-1	20762			
PROCUREMENT SPECIFICATION: Heat Treat per AMS-H-6875 A										
		por //	MD-11-(08/3 A				Andready a state of contract of the state of the state of		
		PLATING								
VENDOR: AFC										
PROCIDERA			CERT	IFICATI	ON NO	.: <u>09-16</u>	613			
ROCOREMEN	T SPECIFICATION	N: Passivate per AM	S 2700	Method 3) (((n	2.5				
				Method 2	. QQ-P	-35	-	a and community common. When the beautiful common to a state of		
BAYY w		MATERIAL						***		
MILL: Carpenter	C	OUNTRY OF MEL	T. HC							
							Γ: <u>55445</u>	2		
GRADE SPECIFI	CATION: Stainless	Steel per MIL-S-187								
	Starriess	Steel per MIL-S-187	32, AM	IS 5628D,	Type 4	31SS, .2	43"			
	43	31SS MATERIAL (THE REAL PROPERTY AND ADDRESS OF THE PARTY O		
ELEMENT-ID. LADLE		PSSI-	-NI-		2.50	1	,			
LADLE	.150 .610 .0	16 .003 .570	1.710	-CR-	-MO-		-AL-	Other		
				***************************************	.030	.050	.000			
PHYSICAL	TENSILE	PHYSICAL PROP	ERTIE	ES						
REQUIRED	4,080 lbs.	YIELD	SHE	AR		HARD	NECC			
ACTUAL	5 311 lbs	3,130 lbs. 4,772 lbs.	3,680			HRC 2	6-32			
Non-Destructive N	Aganatia D		4,236	lbs.		LIDC	0.21			
We hereby certify	that the above dat	a is correct and that	the f							
mspected in accou	rdance with Airfasc	ASTM-E-1444-05 a is correct and that o Industries quality	requir	teners ha	ve been	manuf	actured	and		
		- I A	- vyuiit	ements.		/ \				

Airfasco Industries Quality Assurance Representative:

inspected in accordance with Airfasco Industries quality requirements.



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 9835 NW 14TH ST, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER

5 RA MS20822-3D

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

22890

NELSON AEROSPCE/PERM 52930

Jason Lewis

Vice President of Quality



PERMASWAGE - Nelson Aerospace

A Designed Metal Connections, Inc. Company

10310 Norris Avenue Pacoima, CA 91331 Ph: 818-686-0900 Fax: 818-686-0181

Pack Slip:

53563

Sales Order: 30390

Page:

1 of 1

Customer acking Slip

Ship To:

B/E AEROSPACE CONSUMABLES MANAGEME

9835 NW 14TH ST MIAMI FL 33172

USA

Verify AES requirements prior to shipment.

Sold To:

B/E AEROSPACE CONSUMABLES MANAG

10000 NW 15TH TERRACE MIAMI FL 33172-2756

USA

Verify AES requirements prior to shipment.

305-507-7192 Fax:

Ship Date:

2/17/2014

Ship Via: FEDEX GROUND

F.O.B.: EX WORKS

Cust P.O.:

0RVP31

Salesperson: JIM THOMPSON

PO IS STRIATIFIED ON SE Shipped Oty Eack Order Oty Part Number

Rev Lot Number

FEDEX GRD # 0331-0149-0

RELEASE # 8K6J0RVP31

2,500

2,231

269.00 MS20822-3D F

22890

Sale Order / Line / Release:

30390 / 1 / 1

ELBOW Customer PO Number:

0RVP31

Certificates Required:

Standard Certification: **Full Certifications:**

Yes No

First Article Inspection: Chemical/Physical:

No No Material Certificate: FAIR per AS9102:

No No

1 Box 12x12x12 13 lbs 2 Boxes 15x15x10 17 lbs ea

> AN, MS, AS, NAS and other industry standard parts controlled by ECCN 9A991 and HTS 8803.30.00.00 Products listed have not been exposed to mercury or mercury compounds during the manfuacturing process.

!! MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY PERMASWAGE -NELSON AEROSPACE SALES @ 818-686-0900 !!

WE HERBY CERTIFY THAT ALL PROVISIONS OF THE FAIR LABOR STARNDARDS ACT ON 6/25/83 AS AMENDED HAVE BEEN FULLY COMPLIED WITH IN THE MANUFACTURE, PRODUCTION OR PURCHASE OF GOODS LISTED HEREON. ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE ALL PAST DUE ACCOUNTS SHALL BEAR INTEREST AT THE RATE OF 11/2% PER MONTH (18% PER ANNUM).

Certification of COnformance NELSON AEROSPACE WARRANTS THAT THE ITEMS OF THIS SHIPPER WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM, ACCOMPANYING THE ITEMS OF THIS INVOICE, ARE IN CONFORMITY WITH CONTRACT REQUIREMENTS AND SPECIFICATIONS, GOVERNMENT OR OTHERWISE. NELSON AEROSPACE DISCLAIMS ALL OTHER WARRANTIES OF REPLACEMENT OF ANY ITEM WHICH IS REJECTED BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP. SUCH REPLACEMENT SHALL CONSTITUTE SATISFACTION OF ALL LIABILITY NELSON AEROSPACE MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLANCE OR OTHERWISE, AND IN NO EVENT SHALL NELSON AEROSPACE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMANGES. FURTHER, NELSON AEROSPACE MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECIEPT BY THE CUSTOMER. Country of Origin: MADE IN THE USA

BY RECEIVING DELIVERY OF THE GOODS COVERED BY THIS PACKING SLIP, BUYER EXPRESSLY ASSENTS TO THE TERMS AND CONDITIONS SET FORTH.

Manager of Quality Assurance or Designee

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	;



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
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www.beconsumables.com

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER

50 EA MS21069L4

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

Page: 1 of 1

49348

PAOLO ASTORI

A3856

lason Lewis

Vice President of Quality



PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore 28013 Gattico (NO) - ITALY Tel. (+39) 0322 838847 Fax (+39) 0322 880198 Web: www.paoloastori.com



DOCUMENTO DI TRASPORTO (D.d.T.)

N° 9 Data 03/01/2014 Pag. 1 / 2

9449

B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST. MIAMI - FL USA

Destinazione (Ship To): 370 B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST.

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce Part Number	Rit.Ordine (PO Number)	Data Ordine (PO Date)	Quantità , (Quantity)	U.M.	Nº Lotto (Batch #)	Peso (Weigth)	TA	QCIR	FAI
1	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM1B	07/08/2012	6472	N	49348			X	_
2	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	•		X	
3	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		X	
4	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	•		X	
5	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	QKEM18	07/08/2012	1528	N	49348			X	
6	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		х	
7	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N,	49348	-		X	
8	MS21069L4/NAS697A4-W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		X	
9	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	1000	N	49348	-	,	х	:
10	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		X	
11	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		X	
12	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		×	
13	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348			×	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018767

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione	Modalità di consegna PORTO ASSEGNATO	Firma conducente
VETTORE Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. #	Data ritiro merce 327657348	Firma primo vettore Firma secondo vettore
Secondo vettore	Data ritiro merce	i iiina secondo vettore



PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore 28013 Gattico (NO) - ITALY Tel. (+39) 0322 838847 Fax (+39) 0322 880198 Web: www.paoloastori.com



DOCUMENTO DI TRASPORTO (D.d.T.)

N° 9 Data 03/01/2014 Pag. 2 / 2

9449 B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST. MIAMI - FL USA

Destinazione (Ship To): 370 B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST.

33172 MIAMI - FL US

Cod.Cliente

Pos.	Descrizione merce Part Number	Rif.Ordine (PO Number)	Data Ordine (PO Date)	Quantità (Quantity)	U.M.	N° Lotto (Batch #)	Peso (Weigth)	TA	QCIR	FAI
14	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	•		Х	
15	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	•		×	
16	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	-		x	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopre 150 lbs sped con fedex economy,account #018767

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n° (0
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. #	Data ritiro merce 327657348	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore



drawings mentioned therein.

Country of origin is ITALY.

PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore 28013 Gattico (NO) - ITALY Tel. (+39) 0322 838847 Fax (+39) 0322 880198

Web: www.paoloastori.com

This is to certify that goods listed below have been inspected in our

plant and are up to your orders and to the specifications of the



CERTIFICATE OF CONFORMANCE

N° 9

Date 03/01/2014 Pag. 1 / 2

Purchased by:

B/E AEROSPACE INC. CONSUMABLES MANAG 9835 NW 14TH ST.

MIAMI - FL

USA

Shipped to:

B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST.

		33172 MIAMI - FL US					
Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
1	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	6472	N	49348	
2	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
3	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
4	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
5	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	1528	N	49348	
6	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
7	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
8	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
9	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	1000	N	49348	
10	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
11	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
12	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	DKEM18	07/08/2012	7000	N	49348	
13	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM, OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se solto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs s

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014. Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been mantained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoiced value of the parts in subject.



drawings mentioned therein.

Country of origin is ITALY.

PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore 28013 Gattico (NO) - ITALY Tel. (+39) 0322 838847 Fax (+39) 0322 880198

This is to certify that goods listed below have been inspected in our

plant and are up to your orders and to the specifications of the

Web: www.paoloastori.com



CERTIFICATE OF CONFORMANCE

N° 9

Date 03/01/2014 Pag. 2 / 2

Purchased by:

B/E AEROSPACE INC. CONSUMABLES MANAG 9835 NW 14TH ST.

MIAMI - FL

USA

Shipped to:

B/E AEROSPACE INC. CONSUMABLES MANAG 9835 NW 14TH ST.

			33172 MIA	MI - FL_US			
Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
14	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	
15	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	Ń	49348	
16	MS21069L4/NAS697A4 W0170KEM18(Rev. REV1)	OKEM18	07/08/2012	7000	N	49348	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204768 So sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopre 150 lbs sped

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014. Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been mantained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoiced value of the parts in subject.



COMPANY WITH **QUALITY SYSTEM** CERTIFIED BY DNV = AS/EN/JISQ 9100 =

QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-880198 ww.paoloastori.com

STATEMENT OF CONFORMITY

THIS IS TO CERTIFY THAT PARTS HAVE BEEN PRODUCED, CONTROLLED AND ACCEPTED ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION CALLED BY THE PURCHASE ORDER AND/OR THE APPLICABLE STANDARD DRAWING.

MATERIAL, HEAT AND SURFACE TREATEMENTS AND MANUFACTURING PROCESSES ARE THE SAME AS THOSE USED FOR THE QUALIFICATION APPROVAL.

SAMPLES SUBJECT OF ALL TESTS WERE BEEN SELECTED AT RANDOM FROM THE PRODUCTION BATCH COVERED BY THIS DOCUMENT, COUNTRY OF ORIGIN ITALY.

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF PAOLO ASTORI SPA.

Quality Repr

CUSTOMER

see attached COC

P.O.

see attached COC

PART NO.

MS21069L4 per NASM21069 REV SEE COC / NAS697A4

ASTORI CODE

10AD25A402M11

DESCRIPTION

NUT.SELF-LOCKING, PLATE TWO LUG

PROCUREMENT SPEC.

NASM25027

BATCH NO.

49348

BATCH QUANTITY

250,000

QUANTITY DELIVERED

see attached COC

Description of component	Raw material specification	Raw material Batch no.	Heat N°	Heath treatment performed	Raw material in accordance with
NUT	SAE1042	-3028	7X640110	hardening & tempering	ASTM A29
OTHER					
OTHER	والمحال المحالة				
OTHER					

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been mainteined by the buyer. The seller's manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, as seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequentuser beyond the invoice value of the parts in subject.

		(2)	
Date: 12/12/13	Batch N* 49348	(24)	page 1 of 5





QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-880198 ww.paoloastori.com

SUMMARIZED TEST RESULTS

(all tolerances are expressed in metric and imperial units - test results are recorded as read on the MTE)

Characteristic	Inspection or test to be Performed	Applicable or not	Sample Inspected	inspection Media	Test Result	Note
Examination of product:				 	 	
Design	Verify the design of the nut	A	ALL	VISUAL	OK	
Self-locking device (Major A)	Examination	A	80	VISUAL	ок	see table 1
Thread fit (Major B)	Go-no go gauge - test bolt application	A	32	BOLT GO- GAGE	OK	see table 2
Bearing surface conditions and squareness (Major B)	Check surface roughness and orthogonality error	A	32	OPTICAL COMPARATOR	ОК	see table 3
Surface finish, plating or surface treatment (Major B)	Verify the compliance of the surface treatment and condition	A	32	VISUAL	OK	see table 4
Rivet hole location and alignement (Major B)	Measure the position and the distance	A	32	DIGITAL CALIPER	OK	see table 5
Height of nut (Major B)	Measure the dimension	A	32	DIGITAL CALIPER	ОК	see table 6
Loose or hanging burrs (Minor)	Verify the prsence of any kind of burns	A	13	VISUAL	OK	see table 7
All other dimensional characteristics not covered above (Minor)	Measure all dimensions with reference on the applicable standard	A	13	DIGITAL CALIPER	OK	see table 8 see attachment
Axial Tenile strenght (Table IX)	Verify if the nuts withstand the minimum axial strength	A	27	LOAD MACHINE	ок	see table 9
Locking torque	See below					
Max locking torque (Table IX)	Measure and record the torque value for 1st,7th,15th of each nut tested	A	27	LOAD MACHINE	ОК	see table 10
Min breakaway torque (Table IX)	Measure and record the torque value for 1st,7th,15th of each nut tested	A	27	TORQUE METER	ОК	see table 11
Torque out (Table IX)	Torque out value must be not less than the requested value (attribute)	N/A	-	TORQUE METER	ок	see table 12
Push out (Table IX)	Push out value must be not less than the requested value (attribute)	A	27	LOAD MACHINE	ок	see table 13
Discontinuities (Major B)	No cracks at all - Depths of discontinuities not more than values	Α	32	VISUAL	ОК	see table 14
23-hour stress embrittlement (10 pcs)	Evidence of complete absence of stess embrittlement (attribute)	A	10	VISUAL	ок	see table 15
Magnetic permeability(Table IX)	Cres muts must have less a magnetic permeability less than 2.0 in air for a field strength of H=200	N/A	•	LOW MU INDICATOR	OK_	see table 16
inspection of packaging (All boxes)	Verify the correctiveness of packaging	A	ALL	VISUAL	ОК	see table 17

		(e)	
Date: 12/12/13	Batch N° 49348		page 2 of 5



QUALITY CONFORMANCE INSPECTION REPORT

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Table 1 - Self locking device - examination (control by attribute : ok/not ok)

_	_	
Λ		٧
"	м	1
u	24	1
22	_	•

ОК	ОК	ок	ок	ОК	ОК	ОК	ОК	ОК	ок	ОК	ок	ОК	ок	ок	ОК
ОК	ОК	ОК	ОК	ОК	ОК	ок	ОК	ОК	ок	ок	ОК	ОК	ОК	ОК	ОК
OK	ок	ОК	ок	ОК	ОК	ОК	ОК	ОК	ок	ок	ок	ок	ок	ОК	ок
ОК	ок	ОК	ОК	ОК	ок	ок	ОК	ок	ок	ОК	ОК	ок	ок	ок	ок
ОК	ок	ОК	ОК	ОК	ОК	ок	ок	ОК	ок	ок	ок	ОК	ОК	ок	ок

Table 2 - Thread fit (control by attribute : go-nogo gage ok/not ok - bolt application)



OH	〈	ок	ОК	ОК	ок	ОК	ок	ОК	ок	ок	ОК	ОК	ОК	ОК	ОК	ОК
OH	₹	ок	ОК	ОК	ОК	ок	OK	ОК	ок	ок	ОК	ОК	ОК	ОК	ОК	ОК

Table 3-Bearing surface max. squareness deviation admitted 0.13 mm (0.0051 in) Surface roughness max. value admitted

3.2 (125 micro in)

max. measured max, measured

0.06 mm (0.0023 in) 1.6 (63 micro in)

0.06	0.04	0.06	0.05	0.04	0.04	0.05	0.03	0.04	0.06	0.05	0.05	0.04	0.04	0.03	0.03
0.06	0.04	0.05	0.04	0.04	0.05	0.03	0.03	0.05	0.03	0.05	0.04	0.04	0.05	0.03	0.06
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1.6	1.6	1.6	1.6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6

Table 4 - Surface finish, plating or surface treatment (control by attribute : ok/not ok)



CADMIUM PLATED IN ACC WITH AMS-OQ-P-416 TYPE II CLASS 2 **Actual finishing**

LUBRICATED IN ACC WITH AS5272

ОК	ОК	OK	ОК	ок	ОК	ОК	ОК	ОК	ОК	ок	ОК	ок	ОК	ОК	ОК
ОК	ОК	ОК	ок	ок	ОК	ОК	ок	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК

Table 5- Rivet hole locaction and alignement.

Dimension requested 14.28 +/-0,05 mm (0.562 +/-0,002 in) max. range measured 14.33 mm (0.564 in)



14.30	14.32	14.32	14.33	14.31	14.33	14.32	14.31	14.32	14.32	14.31	14.31	14.32	14.30	14.32	14.33	
14.33	14.33	14.33	14.32	14.31	14.30	14.31	14.30	14.32	14.32	14.30	14.32	14.32	14.30	14.30	14.31	

Table 6- Height of nut Dimension requested 7.14 mm max (0.281 in max) max. range measured 6.18 mm (0.243 in)

Γ	6.13	6.17	6.15	6.13	6.18	6.14	6.14	6.17	6.14	6.13	6.16	6.12	6.16	6.15	6.18	6.12
T	6.17	6.15	6.10	6.16	6.13	6.15	6.12	6.12	6.18	6.18	6.15	6.15	6.12	6.18	6.14	6.18

	page 3 of 5
Date: 12/12/13 Batch N° 49348	page 3 of 5





QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-880198 ww.paoloastort.com Table 7 - Loose or hanging burrs (control by attribute by means visual examination ok/not ok) OK OK OK OK OK OK OK OK OK OK OK OK OK Table 8 -All other dimensional characteristics not covered above (reference on the tolerances of the applicable standard dwg) OK OK OK OK OK OK OK OK OK OK OK QΚ OK Table 9- Axial Tensile strength - Minimum load requested 20380 N (4586 /b) max. measured 21.550 N (4849 lb) 21550 Table 10-Max locking torque -Max. installation torque admitted 3.39 Nm (30.00 in-lb) max. measured 2.84 Nm (25.14 in-lb) 2.75 2.72 2.79 2.63 2.75 2.80 2.65 2.78 2.84 2.73 2.59 2.67 2.63 2.69 2.66 2.71 1.52 1.62 1.58 1.75 1.58 1.52 1.69 1,54 1.69 1.66 1.70 1.58 1.69 1.71 1.66 1.40 1.39 1.32 1.25 1.40 1.45 1.28 1.36 1.48 1,39 1.18 1.28 1.20 1.35 1.24 1.22 1.36 2.58 2.76 2.70 2.75 2.78 2.69 2.65 2.78 2.71 2.66 2.69 1.52 1.65 1.50 1.58 1.41 1.63 1.66 1.62 1.69 1.54 1.69 1.36 1.33 1.36 1.24 1.22 1.30 1,25 1.12 1.39 1.32 1.35 Table 11- Min breakaway torque -Min. breakaway torque requested 0.40 Nm (3.54 in-lb) min. measured 1.05 Nm (9.29 2.54 2.56 2.44 2.56 2.56 2.54 2.60 2.55 2.45 2.56 2.63 2.42 2.63 2.52 2.56 2.63 1.33 1.32 1.39 1.33 1.32 1.45 1.42 1.49 1.42 1.56 1.42 1.26 1.36 1.45 1.56 1.36 1.15 1.23 1.20 1.11 1.12 1.11 1.20 1.05 1.22 1.26 1.36 1.12 1.25 1.36 1.21 1.05 2.52 2.63 2.54 2.45 2.54 2.44 2.42 2,36 2.56 2.55 2.69 1.32 1.45 1.36 1,22 1.41 1.45 1.42 1.47 1.36 1.33 1.42 1.18 1.16 1.11 1.09 1.25 1.22 1.20 1.23 1.05 1.15 1.12 Table12-Torque out-Minimum requested value (control by attribute :ok/not ok) N/A Table 13- Push out -Minimum requested value 556 N (125 lb) (control by attribute :ok/not ok) 610 N (137 lb) OK OK. OK OK OK OK OK OK OK ОК OK OK OK OK OK OK OK OK OK OK OK OK OK OK OK OK OK page 4 of 5

Batch Nº 49348

Date: 12/12/13



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = AS/EN/JISQ 9100 =

QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY-TEL: 0322-838847 FAX: 0322-880198 ww.paoloastori.com

Table 14- Discontinuities-No cracks at all-no discontinuities with depth more than <u>0.13 mm</u> (control by attribute : ok/not ok)

NDT MAGNETIC INSPECTION per ASTM-E-1444



ОК	ок	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК
ОК	ОК	ОК	ОК	ок	ОК	ОК	ОК	ОК	ОК	ок	ОК	ОК	ОК	ОК	ок

Table 15 - 23-hour stress embrittlement (control by attribute : ok/not ok)



ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК
									L

Table 16- Magnetic permeability - (control by attribute : ok/not ok)N/A

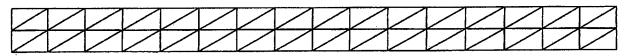


Table 17- Inspection of packaging - (control of heach package unit of the shipment : ok/not ok with respect to the order requirements)

ОК	ок	ОК	ОК	ок	ок	ОК	ОК	ОК	ОК	OK	ОК	ОК	ок	ОК	ок
ОК	ОК	ОК	ОК	ок	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ок

SAMPLING TABLES

TABLE FOR MAJOR A CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	50	0	1
35,000 <q<150,000< th=""><th>80</th><th>0</th><th>1</th></q<150,000<>	80	0	1
150,000 <q<500,000< th=""><th>80</th><th>0</th><th>1</th></q<500,000<>	80	0	1

TABLE FOR MAJOR B CHARACTERISTICS

BATCH SI	ZE SAMPLE SI	ZE AN	RN
<35,000	20	0	1
35,000 <q<15< td=""><td>0,000 32</td><td>0</td><td>1</td></q<15<>	0,000 32	0	1
150,000 <q<50< td=""><td>0,000 32</td><td>0</td><td>1</td></q<50<>	0,000 32	0	1

TABLE FOR MINOR CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	8	0	1
35,000 <q<150,000< td=""><td>13</td><td>0</td><td>1</td></q<150,000<>	13	0	1
150,000 <q<500,000< td=""><td>13</td><td></td><td>- 4</td></q<500,000<>	13		- 4

TABLE IX

BATCH SIZE	SAMPLE SIZE	AN	RN
<50,000	10	0	1.
50,000 <q<100,000< td=""><td>15</td><td>0</td><td>1</td></q<100,000<>	15	0	1
O>160,000	27	0	1



No. (ASS) Page Sets 1128894 1/1 19.11.2012 Test report 2.2 DIW MW 10204 32/90/000850 21.09.2012 MayArn
or Guissppe & Frat. Boneiti SpA Common
23081 CALOLZIOCORTE (LC) MAR
1TALIEN 32/90/000850 Guiseppe & Frat. Bonaiti SpA 23081 CALOLZIOCORTE (LC) ITALIEN Not rolled wide strip da erder Na. 0001178366 Freds (BFI) trans No. 0083995692 18.11.2012 Sen WS Redgeds and tentral delibery C 45 RES-RES DIN EN 10083 T.2/10.2006 CHI/2451 Rev.3-15.06.11 DIN EN 10051:2011-02

N	Material data mi-em												
lana.	Cornelly (1984)	Product No. (967)	Heat No. (1907)		Thistores a Wildle (See-B11)	com x mm							
01	3	218794	7×640110	ט	2,50 x	1300,0							
Σ	3	Walet 26.68	BO Age	V; us selbed									

Heat No. (1867)	16-10 C	ern s s	fa-ta f	P 4 4	e com	Ni *	A1	Cu.	tin Cr
7×640110	0,451	0,174	0,74	0,013	0,001	0,017	0,027	0,012	0,223
Hest He. (200)	Mo	V	į. 						
7x640110	0,002	0,001	 	 	 	 	 		

Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (Str1SchV) for the unrestricted clearance of solid material (Str1SchV Annex III, Section 5) for ferrous nuclides.

Entraffice Floridate Characteristics (6 8-30206 Sologitar (ACL)

rdag to Elt 10 M/, section 5.

Kratz



Sede legale: via Mirabella, 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY TEL: 0322-838847 FAX: 0322-880198 www.paoloastori.com

MS21069L4

O.C.I.R	OFF TABLE 6
U.C.I.R	SEE TABLE 8

BATCH NO.	DATE	VALUE	DIMENSION		ED		DIN	MENSI	ON M	EASU	RED		SIGNATURE
49348	12/12/13	Α	19.96 m	m MAX	3	19.86	19.87	19.88	19.88	19.87	19.86	19.88	lattobiles 24
			·		1	L9.87	19.89	19.87	19.88	19.88	19.87		The state of the s
		В	9.65 – 1	0.52 mm	1	10.45	10.48	10.44	10.43	10.42	10.49	10.45	1
					1	10.45	10.43	10.44	10.45	10.44	10.49	1	1
		K	2.49 – 2	2.62 mm		2.59	2.62	2.59	2.60	2.62	2.60	2.59	TESTED WITH PLUG GAGE
						2.62	2.62	2.60	2.59	2.59	2.62		1
		Н	7.14 m	m MAX		6.13	6.17	6.15	6.13	6.18	6.14	6.14	1
	i i					6.17	6.14	6.13	6.16	6.12	6.16		1
	•	J	14.28 +/-	0.05 mm	1	14.30	14.32	14.32	14.33	14.31	14.33	14.32	
]	14.31	14.32	14.32	14.31	14.31	14.32		1
		٧	1.40 m	m MAX		0.95	0.95	0.96	0.98	0.96	0.97	0.96	1
	1					0.96	0.96	0.95	0.98	0.96	0.97		1
	4	HR	Hardness H	IRC 49 max		39.8	43				1		1
								<u> </u>		T	T	 	1
		FLOATING	LO/LA NA	AXIAL I	NA	T				TT		11	LO = LONGITUDINALLY
				1		\dashv	 		 	++-	+-	╁┷┶	LA = LATERALLY



GIUSEPPE & F.LLI BONAITI S.D.A.

NASTRO E FILO DI ACCIAIO

Sede legale e amministrativa:
Plazza Verd, 3/A
23801 CALOLZ/OCOFITE (LC)
tel. 0341 633980 fax 0341 633981
internet: www.bonatigiuseppe.it
e-meit; info@bonatigiuseppe.it

29/01/13

CERTIFICATO DI CONTROLLO

(Tipo 3.1 secondo poreza EN 10204:2004)

(11pc 3.1 secondo nomas EN 10204:2004

PAOLO ASTORI SPA VIA MIRABELLA 9

20013 MAGGIATE SUPERIORE NO

Vs.Ord. 21796 del 21/11/12

Na.Com. 32/002219-01 del 21/11/12

DDT N. 410 del

del 29.1.13

PRODOTTO

Cod.

PAOLO ASTURI SIA

23028

918

RAW MATERIAL LOT

WASTED CLEE MAR1042 Mil. 25,031,00

RISULTATI PROVE

POGLIO DI LAVORAZIONE

FDL LA 2012 004674

Documento F. 11015 del 6/12/12

Prova

RESISTENZA A TRAZIONE N/MM2 493 ALLUNGAMENTO & ABOMM. 27,71

CARICO UNIT. SCOST. PROP. RPO. 2 346,00

PIEGAMENTO TRASVERSALE 180° OK

Prova

RESISTENZA A TRAZIONE N/MM2 502

ALLUNGAMENTO & ASOMM. 29,57

CARICO UNIT. SCOST. PROP. RPO.2 342,00

Certifichiamo che il prodotto è conforme alle richieste della conferma d'ordine.

LABORATORIO PROVE

L. Panzeri

ANALISI COLATA

(Verifica effettuata dal formitore materia prima)

Coists 7X640118

L. 40478 / 001 . E

0,451 0,740 0,174

0,013

0,001 0,027

A1

CT 0,223

0,012 D

0,017

0,002 0,001

Pag. 1

Cap, Spc. & 1 200,000,00 l.v. Cod. Facale, Reg. Imprese e Part. I.V.A. 002176S0169 C.C.I.A. LC 10669 - Mecc, LC 000853 Stabiliment di produzione: Caloiziocorte (LC) - Palazzago (BG)



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER

2100 BA MS27039-1-08

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

66173

MAC FASTENERS

ORFT4

Jason Lewis

Vice President of Quality

Inv # 03/25/14

MACFASTENERS, INC.

1110 Enterprise Street Ottawa, KS 66067 Phone: 785-242-8812 Fax: 785-242-4616

Packing List

Bill B/E AEROSPACE CONSUMABLES MGMT To: 10000 NW 15TH TERRACE MIAMI, FL 33172 Ship B/E AEROSPACE CONSUMABLES MGMTTo: 9835 NW 14th StreetMiami, FL 33172United States

Shipment No: 60056

Shipment Date: 08/22/13

Ship Via: United Parcel Service

Order Number: 47082

Order Date: 12/28/12

Customer Code: BE AEROSPACE

Phone: (305) 925-2600

PO Number: 0MAJ73

Terms: Net 30 Days

LOT #66173

		Qua	ntity				Job
<u>ltem</u>	<u>Open</u>	Shipped	Back Ord	<u>Canceled</u>	<u>Unit</u>	Description	<u>Number</u>
4	250,000	265,000	0		M	MS27039-1-08 Screw machine pan head structural cross recessed	66173

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA. KANSAS 66067

CERTIFICATE OF CONFORMANCE AND **MANUFACTURER'S AFFIDAVIT**

· · ·

CUSTOMER: B/E AEROSPACE

PO: 0MAJ73

PART NUMBER: MS27039-1-08

REV: 3

LOT NUMBER: 66173

MANUFACTURED QUANTITY: 265,000

MILL HEAT NUMBER: 8172011

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

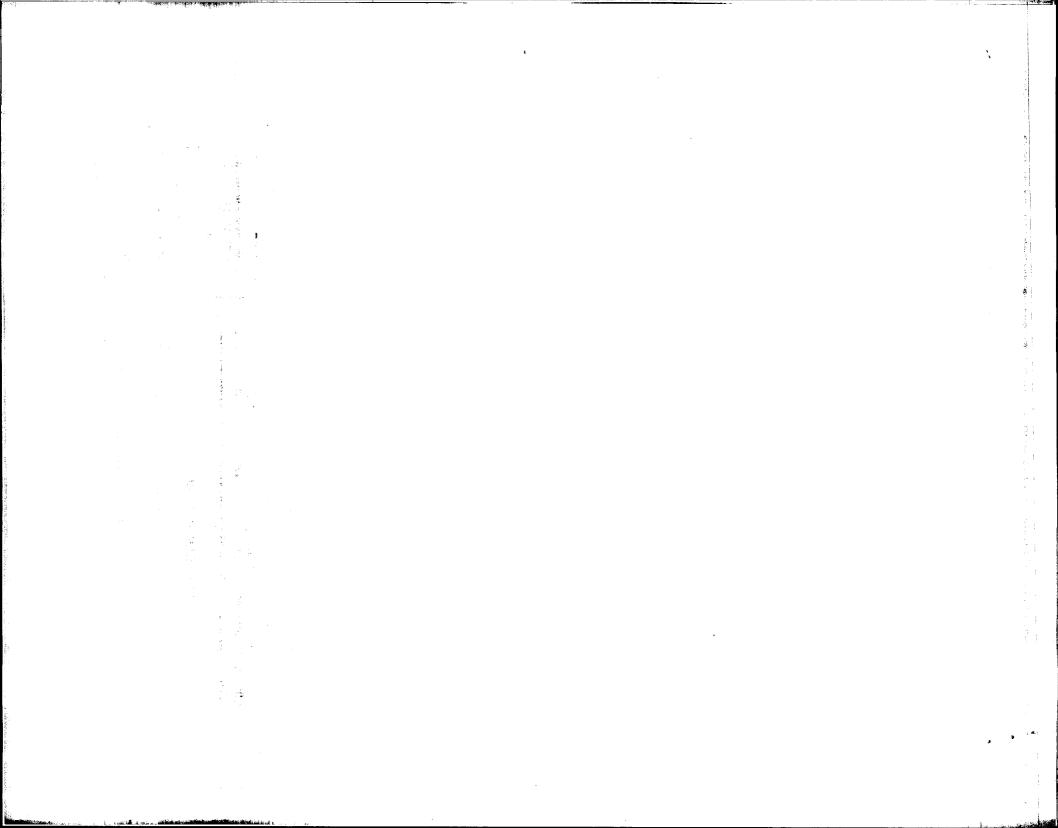
We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 08/20/13

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company- SAI GLOBAL - 0058029



MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 08/20/13

PO NUMBER: **0MAJ73**

MANUFACTURED QUANTITY: 265,000

PROCESSOR:

BODYCOTE MCLEAN - NADCAP ID 4464

LOT NUMBER: 66173

MATERIAL:

TYPE 8740

PART NUMBER:

MS27039-1-08

REVISION: 3

REQUIRED HARDNESS:

26 - 32 HRC

SAMPLE SIZE:

13

HARDNESS:

26 - 27 HRC

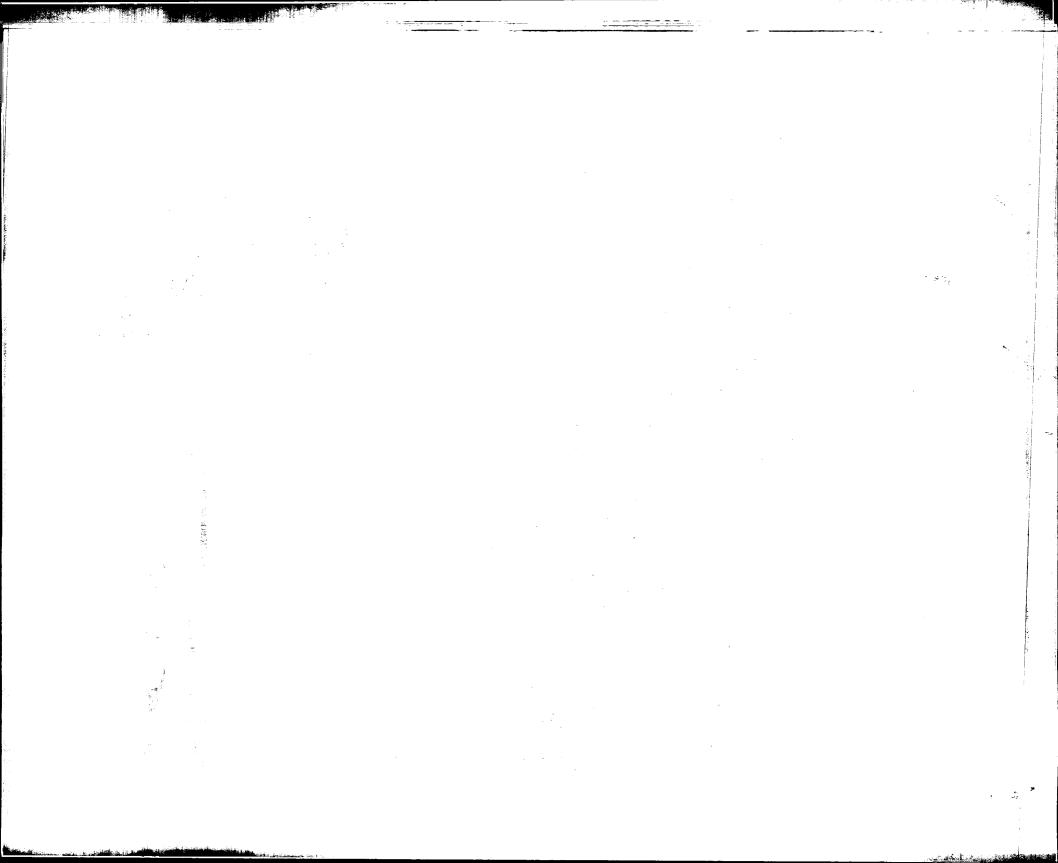
HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat-Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company - SAI GLOBAL - 0058029



MAC FASTENERS, INC. 1110 EAST ENTERPRISE **OTTAWA, KS 66067**

CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER	PON	IUMBER	MFG QUANTITY	DATE
B/E AEROSPACE		0MAJ73	265,000	08/20/13
PART NUMBER	REV	LOT NO	PROCUREMENT	SPEC
MS27039-1-08	3	66173	N/	ASM7839

MATERIA	TYPE 8	740		MATERIAL SPECIFICATION MIL-S-6049/AMS6322				AT NUMBI 8172011		SUPPLIER JOHNSTOWN			
C .42	.26				Cu .08	Ni .42	Cr .48	Mo .21	4		Fe	.031	Ti
	Co	N .0062	Bi	Pb	Mg	Zn		Nb	Sn .005			Other	

MECHANICAL TEST RESULTS - TESTING PER NASM1312

H

DOUBLE SHEAR STRENGTH POUNDS / PSI
TOO SHORT TO TEST PER NASM1312-13
MIN. REQ.

	HARDNESS
ROCK	WELL "C" SCALE
REQ.	26 - 32 HRC
SAMPLE SIZE	13
AC	TUAL RESULTS
	26 - 27 HRC

	METALL	IRGICAL EXAMINATION			
Discontinuities	Discontinuities				
Grain Flow	힏	Microstructure	Image: section of the content of the		
Grain Size	乊	Apppearance	Ū		
Thread Inspec FED-STD-H28/20 - A	tion 8 SME B1.3	ystem System 2 21 22	System 23		

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	
Liquid Penetrant Inspection per ASTM E1417	D
Recess Torque Test	
Head Marking	Ø
Magnetic Permeability ASTM A342 less than 2.0	

Quality Assurance Representative

AS9100C REGISTERED SAI GLOBAL - 0058029

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DE TRAY Plating Works

Specialized Electro-Plating and Polishing
Nickel Passivate

Copper Decorative Chrome Satin Chrome Bright Dip Strip Copper Descale

Zinc Cadmlum

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052 Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@Aol.com

August 16, 2013

Mac Fasteners 1110 East Enterprise Street Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been cadmium plate per QQ-P-416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 2. Please reference our Invoice#172207 dated 8/16/2013 for:

Lot#- 66173

P.N.- MS27039-1-08

James T. Pierson, Vice-President

DE TRAY PLATING WORKS

Please Visit our Web Site: DeTrayPlating.com



Johnstown Wire Technologies

124 Laurel Ave, Johnstown, PA 15906

Phone: 814-532-5680 Fax: 814-532-5684

TEST REPORT

LOT NUMBER **K-8172011**

WORK ORDER

717080

SALES ORDER / RLS 001387 / 1

SOLD TO

Mac Fasteners, Inc. 260 Airport Industrial Road Paris, AR 72855 USA



CUSTOMER P.O. 50516	D. CUSTOMER PART						NTITY LBS		6 LADING 1 5 001175			SHIPMENT DA 05/24/2013
SPECIFICATION AMS2301; AMS Supplement S Spherodize An Size: .1865 +.0	56322; A Silicon K nealed I	MS-S-60 illed Find n Proces	e Grain	Aircra	aft Quali	ty/Cold H	leading					
CERTIFICATION R	EQUIREM	ENTS										
					С	hemical						· · · · · ·
C .42	Mn .88	.007	.01	.3	Si .26	A1 .031	N . 4	1 2	Cr .48	Mo .21	. 08	
.000 ???		.0062	.00	5								
	* 4				P	hysical						
AMS 2301 0000 MacroClean 111	J1 58 E-381	J10 44	J11 41	J12 39	J2 58	J3 56	J5 55	J4 56	J6 54	J7 52	J8 49	J9 47
					Me	chanical						
TEST UNITS Tensile Str Lbs/Sqln RA Per Cent Percent Decarb FFD Inches Surface def. depth Inches				8	HIGH 2000 71.8 .000		81000 71.8 .000		AVERAGE 82000 71.8 .000 .000			
					Rod / I	Aeit Sour	ce		. -			
Rod Source Republic			t Sour	ce		Country USA	of O	rigin	Naft Yes	a		
					End of C	Certification						

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

Daniel J. Molik Director of Quality Assurance

Pitapublicsteel.

1907 hast 20th et. Thous: 330-130-5590 Ednary, OK 44045 FAX: 330-438-5695

CERTIFICĂTE OF TESTS

REPUBLIC STEEL

2/27/2013 6:32:00 AM PAGE 1 OF 2

ووج دوم موسوم موسوم فوم به موسوم موسوع و موسوم موسوم موسوم موسوم موسوم موسوم موسوم موسوم موسوم موسوم موسوم موسوم 12/21/2012 PURCHASE ORD: 83626 PURCHASE ORDER DATE: 5672-1920-01 PART NUMBER: FXT40AA-.375 ACCOUNT NUMBER: 9690-92 ORDER NUMBER: 1539859 - 01 SCHEDULE: REVISION: 1 HEAT: 8172011 DEBE CHARGE ADDRESS EXPERIENCES PROPERTY OF THE PROPERTY OF TH JOHNSTOWN WIRE TECHNOLOGIES JOHNSTOWN WIRE TECHNOLOGIES 124 LAUREL AVE EDWARD ZAPOLA JOHNSTOWN, PA 15906 124 LAUREL AVE TRUCK STPO 9 ROD DOCK JOHNSTOWN, PA 15904 MATERIAL DESCRIPTION -----HOT ROLLED STBEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA 10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COND 8-1 EXC MARK & UT WAIVED EF-AISI-8740-H FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY RESTRICTED CHEMISTRY RESTRICTED WAX INCIDENTAL ELEMENTS SIZE: RDS .3750 DIAM X COIL RDS 9.5250MM DIAM X COIL ------ LADLE CHEMISTRY \$ C P CU NI CR MIN S SI 0.42 0.88 0.007 0.013 0.26 0.08 0.42 0.48 v MO SN AL В CB 0.002 0.21 0.005 0.031 0.0000 0.0062 ---- CALCULATED TESTS ----REDUCTION RATIO 1,177.6 TO 1 AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM JOMINY HARDNESS TEST SAR J406/ASTM A255 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 58 58 56 56 55 54 52 49 47 44 41 39 38 37 36 35 33 33 33 31 31 30 30 29 ASTM E381/MIL STD 430 MACRO ETCH TEST ETCHANT: HCL TEMPERATURE: 170 S R C AVG MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300 AVG IND AVG IND FREQ FREQ SEV SEV 0 0 0 8 _____ ------ FINISHED SIZE RESULTS -------DECARBURIZATION TEST SAE J419/ASTM EI077/JIS G0558 ETCHANT = NITAL MAGNIFICATION = 100X TOTAL SPIKE COMPLETE DEPTH

MT Kutt

INCHES

0.002

DIRECTOR QUALITY ASSURANCE

PCE 2392

G. KRUTH

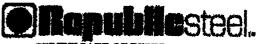
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INCHES

0.002

BY DEBORAH STOKES



1807 RAST ZODA KT. PROFE: 330-429-5520 LOUADY, OK 44055 FAX: 330-439-3695

CERTIFICATE OF TESTS

REPUBLIC STEEL

6:32:00 AM PAGE 2 OF 2

PURCHASE ORD: 83626

PART NUMBER: FXT40AA-.375

ORDER NUMBER: 1539859 - 01

HEAT:

8172011

PURCHASE ORDER DATE: 12/21/2012

ACCOUNT NUMBER:

5672-1920-01

SCHEDULE:

9690-92

REVISION:

1

CAPABLE OF SEAM DEPTH 1% MAX DIAMETER NOT LESS THAN .005 MAX

NOTES -----CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN

------ NOTES (CONTINUED) ------

ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

Source information ------

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A

MELT METHOD: BF BLOOM RED. RATIO: 1177.6

HOT ROLL SOURCE: LORAIN 9/10, U.S.A

END OF DATA ------ END OF DATA ------

FILE

1 COPY

WITH SHIPMENT 1 COPY DRINTED AT SHIPPING AREA FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA

1-814-532-5684

G. KRUTH DIRECTOR QUALITY ASSURANCE BY DEBORAH STOKES

MT Kits



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

LNE# QUANTITY U/M PART-NUMBER

100 BA AN4-42A

CUST REF#

OT-NUMBER

MANUFACTURER

CODE MER NATE EXP DATE

323300

CALIFORNIA SCREW PRO 82507

Jason Lewis

Vice President of Quality

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CALIFORNIA SCREW PRODUCTS CORPORATION 14957 GWENCHRIS COURT PARAMOUNT, CALIFORNIA 90723-3423 TEL (562) 633-6626 FAX (562) 633-2082

PACKING SLIP

Original : 28769

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003635 B/E AEROSPACE CONSUMABLE MANAGEMENT P.O. BOX 025263 MIAMI, FLA 33102-5263 Ship To:

B/E AEROSPACE CONSUMABLE MANAGEMENT 9835 NW 14TH ST. MIAMI, FLA 33172

Custa	mer P.O. No.	Sales Order	Date	Date Ship Via				Job No.		
	0YN947	46954	09-16-11	FEL	EX GR	N 32330	<u> </u>			
Pos	Item	Ordered	Delivered	Qty	Unit	Weight	No. of	Cartons		
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MANUFACTURERS OF AIRCRAFT FASTENERS AN-MS-NAS

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ALIFORNIA S	CREW PROD	UCTS COR	PORATION.	Honey	well Sour	ce Acce	pted:	<u> </u>	7 1	XXXIIII	Ellu	x 7	ans
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Form QCSP019 Form Revision Date: 06/06/2007 RMRA.#



SOLD TO

Cal Screw Products 14957 Gwenchris Ct. Paramount, CA 90723 USA WORK ORDER 083494

CERTIFICATION

HEAT NO./ 10073780/ SALES ORDER / RLS 839640 / 1

ISO 9001-2000 REGISTERED



CERT # 911.01

CERT# 911.01 CUSTOMER PART CARRIERS SHIPMENT DATE CUSTOMER P.O. **LADING NO** 06/02/2011 h1196/ 00090289 111282/ 2.583 Lbs 2 SPECIFICATION C048740-102455A A-8740, AQ,/SKFG, CHQ WIRE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.245/0.246 Specifications: AMS2301H, AMS6322N; MIL-S-6049A; AMEND. 1, H1196; AMS-S-6049-A **CERTIFICATION REQUIREMENTS** Chemical Properties Ni Cr D Cit Mn Mo 013 014 . 95 **Physical Properties** Cleanliness Mill Source Grain Size Jominy 1 Jominy 2 Jominy 3 Inclusions Macro 10=37 S2-R1-C2 GOOD F&S=0 Charter 6 5=52 Country of Origin USA - DFAR Compliant **Mechanical Properties** UNITS Results TEST 83.3 **Tensile Strength** KSI KSI 70.8 **Yield Strength** 29 % Elongation % 71.6 % % Reduction of Area 86 Rockwell Hardness B Scale HRB (s) DEARS 152 225-7014 ALT. 1 COMPLIANCE

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the revise hereof. The recording of false, fictious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.*

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following best: chemical enalysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburtzation depth per ASTM E 1077, IF1 140, inclusion rating per ASTM E 45, decarburtzation performed especific per ASTM E 3, decarburtzation depth per ASTM E 1077, IF1 140, inclusion rating per ASTM E 45, decarburtzation performed especified as Melt Source results, Transcribed from mill cartificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. "Best result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation at 12 and 12

Material is free of mercury, radium, or alpha contamination.

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06/02/2011



A Division of Charter Manufacturing Company, Inc.

1658 Cold Springs Road

Saukville, Wisconsin 53080

(262) 268-2400

FAX (262) 268-2570

1-800-437-8789

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Wiretech Incorporated 6440 East Canning Street Los Angeles, CA-90040 **Kind Attn: Cert To Contact**

_J/N 3233	00
CUST P.O.	6513-3
Customer Part #	8740C1A080-C-R
Charter Sales Order	70011147
Heat #	10073780
Ship Lat #	4026728
Grade	8740 R SK FG AQ 21/64
Process	HRSA
Finish Size	21/64

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed

	Test Results of Heat Lot# 10073780											
Lab Code: 7388 CHEM %Wt	c .41/	MN .95	P .014	s .013/	SI /	NI /	CR/	MO/	CU /	SN .008	V .001	
	AL .027	N .0070	B .0001	T1 .002	NB .002							
JOMINY(HRC)	JOM01 57	JOM02 57	JOM03 56	JOM04 55	JOM05 52	JOM06 51	JOM07 47	JOM08 44	39 39	JOM10 37	JOM11 37	JOM12 35
	JOM13 35	JOM14 34	JOM15 33	JOM16 32	JOM18 31	JOM20 31	JOM22 30	JOM24 29	JOM26 29	JOM28 29	JOM30 29	JO M32 28
JOMINY SAMPL MACRO ETCH S AMS 2301 FREO AMS 2301 SEVE CHEM. DEVIATION	URFACE UENCY / RITY AV	= 1 MA AVERAGE ERAGE =	CRO ETC = .03 A	H RANDO MS 2301	= 0358-01)M = 1 I FREQUEN VERITY IN	MACRO E	TCH CEN' NDUAL = . L = .03					
					Test R	esults of	Rolling Lo	x# 101350	7			

	35	34	33	32	31	31	30 30	JUM24 29	JOM26 29	JOM28 29	JUM30 29	JOM32 28
	33	37	33	36	31	31	30	44	4.0	20	40	20
JOMINY SAMPLI	E TYPE E	NGLISH	B JON	HNY LAR	= 0358-01	l						
MACRO ETCH SI	URFACE	= 1 MJ	CRO ETC	H RAND	OM = 1	MACRO E	TCH CEN					
AMS 2301 FREQ								06				
AMS 2301 SEVE CHEM. DEVIATION				S 2301 SE	VERITY I	IDIVIDUA	L = .03					
CHEM. DEVIATIO	MEAI.	GKEEN =	, 									
					Test R	esults of	Rolling Lo	¢# 10135€)7			
REDUCTION RAT	TIO = 358	l:1										
	····			Tes	st Results	of Proces	sina Lot	4026861	4026728		·	
			# of "	Tests	Min \		Mex \			Value		
TENSILE			2.0		83.9		83.9		83.9		TENS	SILE LAB = 0358-02
REDUCTION OF	AREA		2		63		66		65		RA L	AB = 0358-02
ROCKWELL B			2		80		81		81		RBL	AB = 0358-02
NUM DECARB =	• 505	E EEDDIT	E DECAR	B 000	EDEE EI	:DD e DA	RTIAL DE	CADD - (004			
CP SPHERO % L					SPHERO			UMRD W.	W1			
				···								
Specifications:			nufacture									
												wing customer documents
		ÇU	stomer Do	cument (- COP 301	U	Revision		ted = 12	- MAK -03		
Additional Comm	ante.	WE	ETS REQ	HDEMEN	TE OF SD	ECIEICAT	TONE AM	:e::::::::::::::::::::::::::::::::::::	ME2201 I/	MI . C . 44	140A	
TOTAL COLLE	101 ILD.	1416	r is krd	OILEME)	113 01 31	LON ION	IOIIO MA	MATERIAL	M3230131	mr-3-0	1	
										T	AR /	

DWARE 192.225-7014 ALT. COMPLIANCE

Charter Steel Saukville, WI, USA

Manager of Quality Assurance 07/15/2010

Janice Barnard

Rem: Load1,Fax0,Mail0

J/N323300

The following statements are applicable to the material described on the front of this Test Report:

- 1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
- 2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
- 3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
- 4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code		Laboratory	Address			
0358-01	7388	CSSM	Charter Steel Meiting Division	1653 Cold Springs Road, Saukville, WI 53080			
0358-02	8171	CSSR/ CSSP	Charter Steel Rolling/ Processing Division	1658 Cold Springs Road, Saukville, Wi 53080			
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457			
0358-04	125544	CSCW	Charter Steel Cleveland 4300 E. 49th St., Cuyahoga Heights, Of 44125-1004				
•	•		Subcontracted test performed by laboratory not in Charter Steel system				

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSSM, CSCM/CSCR	ASTM E415; ASTM E1019
-ray Fluorescence Stainless and Alloy Steel	CSCM/CSCR	ASTM E572
Macroetch	CSSM, CSCM/CSCR	ASTM E381
Hardenability (Jominy)	CSSM, CSCM/CSCR	ASTM A255; SAE J406; JIS G0561
Grain Size		ASTM E112
Tensile Test	CSSR/CSSP, CSFP,	ASTM E8; ASTM A370
Rockwell Hardness		ASTM E18; ASTM A370
Microstructure (spheroidization)	CSSR/CSSP, CSFP	ASTM A892
Inclusion Content (Methods A, E)	CSSR/CSSP, CSCM/CSCR	ASTM E45

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/11.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

- 6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
- 7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:

It may be distributed only to their customers

■Both sides of all pages must be reproduced in full

8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.

9. Where the customer has provided a specifiction, the results on the front of this test report conform to that specification unless otherwise noted on this test report.

DEARS 152 125-7014 ALT. I

Certification

Tri-J Heat Treating

327 E Commercial St, Pomona CA 91767

Phone:909-622-9999 Fax: 909-622-1790

Order No.: 22351

Date: 08/12/2011

Entry Date: 08/10/2011

Page: 1

To: CALIFORNIA SCREW PRODUCTS COR

P.O.Box 228

Purchase Order No.: 114041

Job#: 323300

Material: 8740

PARAMOUNT CA 90723

Phone: 562-633-6626

We are pleased to provide you with the following Certification

Quantity	Part Number / Part Name / Part Description	Pounds
6,000	AN4-42A REV NA , NASM3-20 REV 2	400

Heat Treat AMS 2759 / 1 REV E Harden to specific hardness

Insp. Type	Scale	Minimum	Maximum		Scale	Minimum	Maximum	Value
Customer Requir	ements:			Results:	• • •			
Hardness	HRC	27.0	32.0	Hardness	HRC	28.0	30.0	6.0

Process Steps

Step: 1 Process: Heat Treat

Treat at 1575 F, Dew point 50, Oil Quench at 130 F.(1 Hr Min)

Step: 2 Process: Temper

Temper at 1100 F, 1 Hr for each 400 Lbs. MIN 2 HRS

ISO 9001:2008 REGISTERED

Gary Madrigal QC Manager Tri-J Heat Treating

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CERTIFICATION

Southwest Plating Company, LLC

1344 W. Slauson Ave. Los Angeles, CA 90044-2824 Telephone (323) 753 - 3781 Fax (323) 753 - 9472

DATE	INVOICE #
9/14/2011	127598

BILL TO	
CA Screw Products Corp P.O. Box 228 Parmount,Ca. 90723	
·	

SHIP TO	
CA Screw Products Corp	
14957 Gwen Chris Ave.	
Parmount, Ca. 90723	

P.O. NUMBER TERI		REP	SHIP	VIA	F.O.B.	Р	ROJECT
114807	Net 30		9/14/2011				
QUANTITY	ITEM CODE	<u></u> _	DESCRIP	TION	PRICE	EACH	AMOUNT
1,	FOF PIECES	6000				0.00	0.0
	PART NUMBER		7.N/A NASM3-20 I	EV.2	1	0.00	0.0
	PANS	6			·	0.00	0.0 0.0
	IOB NUMBER	323300				0.00	0.0
	POUNDS	400				0.00	0.0
	MATERIAL	8740				0.00	0.0
	THICKNESS	.0003500045	ΓΥΡΕ 11 CL 2 PER	AMS 00 P-416C	j	0.00	0.0
ľ	41		BA R/C 27-32 A/P .2			0.00	0.0
	CERT	WE HEREBY INSPECTION PURCHASE O	CERTIFY THAT T PERFORMED ON ORDER ARE IN ACC. SPECIFICATIONS	HE PROCESSING PARTS BY THIS CORDANCE WIT	н	0.00	0.0
	SIGN 1	SIGNED TOM DATE	19 GANTINO, OV 09/14/2011	NER		0.00	0.0
. <u> </u>		-					
aims must be mad	e within 5 days of rea	ceipt of goods. N	lo returns accepted y	without our approv	al.		

Hadd-Co. Inspection Lab.

Toli Free: (888) 339-8472 Phone: (310) 325-7620 (310) 325-9655

Fax:

TO:

2420 Amsler Street, Torrance, California 90505 www.Hadd-Co.net E-Mail: haddco@earthlink.net

DATE:

P.O. NO.:

114917

CALIFORNIA SCREW PRODUCTS, INC. 14957 GWENCHRIS CT PARAMOUNT, CA 90723

JOB / LOT NO.:

323300

QUANTITY	PART NUMBER	DESCRIPTION
32	AN4-42A REV. N/A NASM3-20 REV. 2	MPI PER ASTME1444-05 NASM6812-2 MAT: 8740 PLATED 32 PC SAMPLE OF 6000 PC LOT
Magnetic	100% INSPECTION Penetrant NO REJECTS	This is to certify that parts under subject purchase order have been Fluorescent Penetrant / Magnetically inspected in accordance with applicable and / or purchase order requirements. STEPHANIE GARFIELD LEVEL INSPECTOR

Note: Altering of this certification renders it void.